Excel Assignment - 18

1. What are comments and what is the importance of commenting in any code?

➤ Comments are text notes added to the program to provide explanatory information about the source code.

➤ They are used in a programming language to document the program and remind programmers of what tricky things they just did with the code and help the later generation for understanding and maintenance of code.

2. What is Call Statement and when do you use this statement?

➤ The CALL statement transfers control from one object program to another within the run unit.

➤ The program containing the CALL statement is the calling program; the program identified in the CALL statement is the called subprogram. Called programs can contain CALL statements; however, only programs defined with the RECURSIVE clause can execute a CALL statement that directly or indirectly calls itself. We can use the Call keyword when you call a procedure.

3. How do you compile a code in VBA? What are some of the problems that you might face when you don't compile a code?

➤ You can compile your VBA code by clicking Debug Menu → Compile VBA Project. A compile error for a missing "End if" part of an IF statement. Every individual line in the code is correct, but together, they don't represent a complete IF statement.
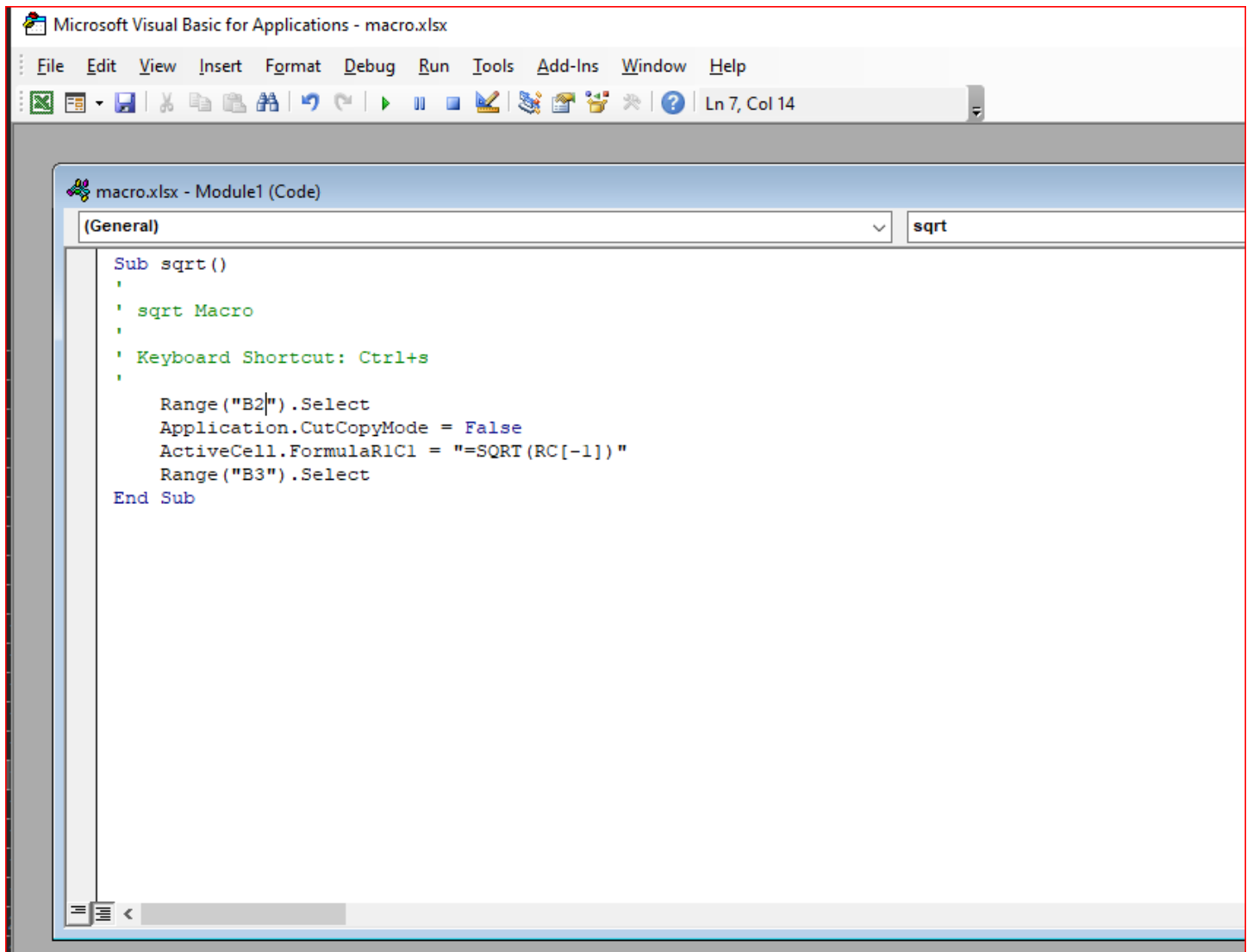
➤ Compiled languages are converted directly into machine code that the processor can execute. As a result, they tend to be faster and more efficient to execute than interpreted languages.

➤ If the compiler failed to compile our code means, we have written something that isn't legal in the language we are using, and it would not be processed well.

4. What are hotkeys in VBA? How can you create your own hotkeys?

➤ A hotkey is a key or a combination of keys on a computer keyboard that, when pressed at one time, performs a task (such as starting an application) more quickly than by using a mouse or other input device.

➤ Hotkeys are sometimes called shortcut keys. Hotkeys are supported by many operating systems and applications.

➤ We can customize keyboard shortcuts (or shortcut keys) by assigning them to a command, macro, font, style, or frequently used symbol. We can also remove keyboard shortcuts and assign or remove keyboard shortcuts by using a mouse or just the keyboard.

5. Create a macro and shortcut key to find the square root of the following numbers 665, 89, 72, 86, 48, 32, 569, 7521

	A	B	C	D	E
1	Numbers	Square root			
2	665	25.78759392			
3	89	9.433981132			
4	72	8.485281374			
5	86	9.273618495			
6	48	6.92820323			
7	32	5.656854249			
8	569	23.85372088			
9	7521	86.72369918			
10					
11					
12					
13					

Microsoft Visual Basic for Applications - macro.xlsx

File   Edit   View   Insert   Format   Debug   Run   Tools   Add-Ins   Window   Help

Ln 7, Col 14

macro.xlsx - Module1 (Code)

(General)   sqrt

```vba
Sub sqrt()
'
' sqrt Macro
'
' Keyboard Shortcut: Ctrl+s
'
    Range("B2").Select
    Application.CutCopyMode = False
    ActiveCell.FormulaR1C1 = "=SQRT(RC[-1])"
    Range("B3").Select
End Sub
```

6. What are the shortcut keys used to

a. Run the code --- F5

b. Step into the code --- ALT +F1

c. Step out of code --- CTRL+SHIFT+F8

d. Reset the code --- F4